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File: USPT

Nov 16, 1999

US-PAT-NO: 5987519

DOCUMENT-IDENTIFIER: US 5987519 A

TITLE: Telemedicine system using voice video and data encapsulation and de-encapsulation for communicating medical information between central monitoring stations and remote patient monitoring stations

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peifer; John W.	Atlanta	GA	N/A	N/A
Hopper; Andrew	Atlanta	GA	N/A	N/A
Burrow; Michael	Lawrenceville	GA	N/A	N/A
Sudduth; Barry	Lawrenceville	GA	N/A	N/A
Panchal; Samir	Norcross	GA	N/A	N/A
Quay; Andy	Kennesaw	GA	N/A	N/A
Price; W. Edward	Smyrna	GA	N/A	N/A
Searle; John R.	Houston	TX	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Georgia Tech Research Corporation	Atlanta	GA	N/A	N/A	02

APPL-NO: 8/ 933388

DATE FILED: September 19, 1997

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATION This application claims priority to and the benefit of the filing date of copending provisional application entitled AN ELECTRONIC HOUSE CALL SYSTEM, assigned Ser. No. 60/026,986, filed Sep. 20, 1996, which is hereby incorporated herein by reference.

INT-CL: [6] G06F 13/00

US-CL-ISSUED: 709/230; 709/240, 709/205

US-CL-CURRENT: 709/230; 709/205, 709/240

FIELD-OF-SEARCH: 600/595, 600/509, 600/300, 709/246, 709/230, 709/240, 709/205

REF-CITED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4259548	March 1981	Fahey et al.	179/5R
<input type="checkbox"/> 4838275	June 1989	Lee	128/670
<input type="checkbox"/> 5339821	August 1994	Fujimoto	128/700
<input type="checkbox"/> 5434611	July 1995	Tamura	348/8
<input type="checkbox"/> 5438607	August 1995	Przygoda, Jr. et al.	379/38
<input type="checkbox"/> 5441047	August 1995	David et al.	128/670
<input type="checkbox"/> 5488412	January 1996	Majeti et al.	348/10
<input type="checkbox"/> 5502726	March 1996	Fischer	370/94.1
<input type="checkbox"/> 5544649	August 1996	David et al.	128/630
<input type="checkbox"/> 5553609	September 1996	Chen et al.	128/630
<input type="checkbox"/> 5558638	September 1996	Evers et al.	604/66
<input type="checkbox"/> 5576952	November 1996	Stutman et al.	364/413.02
<input type="checkbox"/> 5619991	April 1997	Sloane	600/300
<input type="checkbox"/> 5640953	June 1997	Bishop et al.	128/630
<input type="checkbox"/> 5666487	September 1997	Goodman et al.	709/246
<input type="checkbox"/> 5687734	November 1997	Dempsey et al.	600/509
<input type="checkbox"/> 5810747	August 1998	Brundy et al.	600/595

ART-UNIT: 276

PRIMARY-EXAMINER: Luu; Le Hien

ATTY-AGENT-FIRM: Thomas, Kayden, Horstemeyer & Risley, L.L.P.

ABSTRACT:

The present invention provides a packet-based telemedicine system for communicating video, voice and medical data between a central monitoring station and a patient monitoring station which is remotely-located with respect to the central monitoring station. The patient monitoring station obtains digital video, voice and medical measurement data from a patient and encapsulates the data in packets and sends the packets over a network to the central monitoring station. Since the information is encapsulated in packets, the information can be sent over multiple types or combinations of network architectures, including a Community access Television (CATV) network, the Public Switched Telephone Network (PSTN), the Integrated Services Digital Network (ISDN), the Internet, a local area network (LAN), a wide area network (WAN), over a wireless communications network, or over an asynchronous transfer mode (ATM) network. Thus, a separate transmission protocol is not required for each different type of transmission media. Rather, a single transport/network layer protocol is used for encapsulating the information in packets at the sending end and for de-encapsulating the information at the receiving end. Furthermore, by sending the information in packets, the video, voice and measurement data can be integrated and sent over a single network.

19 Claims, 5 Drawing figures